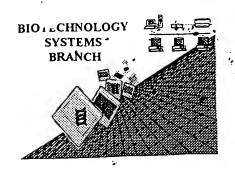
RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	09	931	375
Source:		PE	
Date Processed by STIC:	02	3/23	12001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,

2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: $09/931,37$
ATTN: NEW RULES CASES	S: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
lWrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's représenting more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
"bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

AMC - Biotechnology Systems Branch - 06/04/2001

DATE: 08/23/2001

TIME: 17:07:12

OIPE

```
Input Set : A:\ES.txt
                     Output Set: N:\CRF3\08162001\I931375.raw
      3 <110> APPLICANT: WARMAN, Matthew L.
                                                                      Does Not Comply
              GONG, Yaoqin
      5
              OLSEN, Bjorn R.
                                                                  Parrected Diskette Needed
      6
              RAWADI, Georges
              ROMAN-ROMAN, Sergio
      9 <120> TITLE OF INVENTION: REGULATOR GENE AND SYSTEM USEFUL FOR THE DIAGNOSIS AND
THERAPY OF
              OSTEOPOROSIS
     10
     12 <130> FILE REFERENCE: 38464-0004
C--> 14 <140> CURRENT APPLICATION NUMBER: US/09/931,375
C--> 14 <141> CURRENT FILING DATE: 2001-08-17
     14 <150> PRIOR APPLICATION NUMBER: US 60/304,851
     15 <151> PRIOR FILING DATE: 2001-07-13
     17 <150> PRIOR APPLICATION NUMBER: US 60/234,337
     18 <151> PRIOR FILING DATE: 2000-09-22
     20 <150> PRIOR APPLICATION NUMBER: US 60/226,119
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     35 gegeegeeeg ggeegeegtg geegetgetg etgetgetge tgetgetget ggegetgtge
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                                                                              180
     37 ggctgcccgg cccccgccgc ggcctcgccg ctcctgctat ttgccaaccg ccgggacgta
                                                                              240
     39 cggctggtgg acgccggcgg agtcaagctg gagtccacca tcgtggtcag cggcctggag
     41 gatgeggeeg cagtggaett ecagttttee aagggageeg tgtaetggae agaegtgage
                                                                              300
     43 gaggaggcca tcaagcagac ctacctgaac cagacggggg ccgccgtgca gaacgtggtc
                                                                              360
                                                                              420
     45 atctccggcc tggtctctcc cgacggcctc gcctgcgact gggtgggcaa gaagctgtac
                                                                              480
     47 tggacggact cagagaccaa ccqcatcgag gtggccaacc tcaatggcac atcccggaag
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     51 tacatgtact ggacagactg gggtgagacg ccccggattg agcgggcagg gatggatggc
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                                                                              720
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                                                                              840
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                                                                              900
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     63 atccaggtgc tgagccagga gcggcagcct ttcttccaca ctcgctgtga ggaggacaat .
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     65 ggcggctgct cccacctgtg cctgctgtcc ccaagcgagc ctttctacac atgcgcctgc
                                                                             1020
     67 cccacgggtg tgcagctgca ggacaacggc aggacgtgta aggcaggagc cgaggaggtg
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     69 ctgctgctgg cccggcggac ggacctacgg aggatctcgc tggacacgcc ggacttcacc
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/931,375

Input Set : A:\ES.txt

Output Set: N:\CRF3\08162001\I931375.raw

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	_			ctgggggact			1740
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				gtgaatgtgg			1860
				cacctgtgct			1920
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				gccatccaca			2040
						ggactttgat	2100
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						ggacaaggtg	2520
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				gggacaccac			3780
159	ctcgtgctcc	tgcagaacct	gctgacctgt	ggagagccgc	ccacctgctc	cccggaccag	3840
161	tttgcatgtg	ccacagggga	gatcgactgt	atccccgggg	cctggcgctg	tgacggcttt	3900
163	cccgagtgcg	atgaccagag	cgacgaggag	ggctgccccg	tgtgctccgc	cgcccagttc	3960
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Output Set: N:\CRF3\08162001\1931375.raw

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	_	_	-				-						_		-	_	
	_				_	_	_		-	_	_	_				catctc	
		_			-		-				_					tctggc	
		_	-								_					tatgat	
	199 ttaaaaaata aatataattg ggattttaaa aacatgagaa atgtgaactg tgatggggtg														5040		
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215				20					25					30			
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	Glu	Arg	Ala		Met	Asp	Gly	Ser		Arg	Lys	Ile	Ile		Asp	Ser	
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	Leu		Trp	Ala	Asp	Ala		Leu	Ser	Phe	Ile		Arg	Ala	Asn	Leu	
251		210	_		_		215					220	_			_	
	_	GLY	Ser	Phe	Arg		Lys	Val	Val	GLu	_	Ser	Leu	Thr	His		
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Input Set : A:\ES.txt

Output Set: N:\CRF3\08162001\1931375.raw

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263			275					280			•		285			
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266	Gly	290 Cvc	Sor	Uic	T.Ou	Cve	295	T.011	Sor	Dro	Sor	300	Pro	Dho	Tur	Thr
	305	Cys	361	1113	пец	310	ьец	nea	Ser	110	315	GIU	110	rne	1 7 1	320
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272	_	_ ,	~ 3		325	0 1	1	_		330		_		ml	335	.
275	Lys	Ala	GIY	340	GIU	GIU	vaı	ren	ьеи 345	Leu	Ala	Arg	Arg	350	Asp	Leu
	Arg	Arg	Ile		Leu	Asp	Thr	Pro		Phe	Thr	Asp	Ile		Leu	Gln
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281 283	Gly	370 Tvr	Val	Tvr	Tro	Thr	375 Asp	Asp	Glu	Val	Ara		Ile	Arg	Arg	Ala
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	Tyr	Leu	Asp	Gly		Gly	Ala	Gln	Thr		Val	Asn	Thr			Asn
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293	_	_	435		_		<u>,</u>	440	_	_	_	a 1	445	•		- 1 -
295 296	Ser	Arg 450	Lys	TTE	Leu	Val	Ser 455	GIU	Asp	Leu	Asp	460	Pro	Arg	Ата	ше
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Input Set : A:\ES.txt

Output Set: N:\CRF3\08162001\1931375.raw

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338	-		675					680					685			
340	Ile	Tyr	Trp	Thr	Asp	Val	Ser	Leu	Lys	Thr	Ile	Ser	Arg	Ala	Phe	Met
341		690	-		-		695		-			700	-			
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	705	-				710					715	_				720
346	Glu	Gly	Met	Ala	Val	Asp	Trp	Met	Gly	Lys	Asn	Leu	Tyr	Trp	Ala	Asp
347		•			725	-	-		-	730			_	_	735	
349	Thr	Gly	Thr	Asn	Arg	Ile	Glu	Val	Ala	Arg	Leu	Asp	Gly	Gln	Phe	Arg
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	Gln	Val	Leu	Val	Trp	Arq	Asp	Leu	Asp	Asn	Pro	Arg	Ser	Leu	Ala	Leu
353	•		755		•	_	-	760	-			_	765			
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356		770		•	•	•	775	•	•			780	-	-	-	
	Arq	Ile	Val	Arq	Ala	Phe	Met	Asp	Gly	Thr	Asn	Cys	Met	Thr	Leu	Val
	785			•		790		-	-		795	•				800
_		Lvs	Val	Glv	Arg	Ala	Asn	Asp	Leu	Thr	Ile	Asp	Tyr	Ala	Asp	Gln
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373	Leu	His	Ser	Ile	Glu	Arg	Ala	Asp	Lys	Thr	Ser	Gly	Arg	Asn	Arg	Thr
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376	Leu	Ile	Gln	Gly	His	Leu	Asp	Phe	Val	Met	Asp	Ile	Leu	Val	Phe	His
377				_	885		_			890					895	
379	Ser	Ser	Arg	Gln	Asp	Gly	Leu	Asn	Asp	Cys	Met	His	Asn	Asn	Gly	Gln
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383	_	_	915		_			920					925			
385	Ala	Ser	His	Tyr	Thr	Leu	Asp	Pro	Ser	Ser	Arg	Asn	Cys	Ser	Pro	Pro
386		930					935					940				
388	Thr	Thr	Phe	Leu	Leu	Phe	Ser	Gln	Lys	Ser	Ala	Ile	Ser	Arg	Met	Ile
389	945					950					955					960
391	Pro	Asp	Asp	Gln	His	Ser	Pro	Asp	Leu	Ile	Leu	Pro	Leu	His	Gly	Leu
392					965					970					975	
394	Arg	Asn	Val	Lys	Ala	Ile	Asp	Tyr	Asp	Pro	Leu	Asp	Lys	Phe	Ile	Tyr
395	-			980					985					990		
397	Trp	Val	Asp	Gly	Arg	Gln	Asn	Ile	Lys	arg	, Ala	Lys	. Asp	A A S	sp G	ly Thr
398	_		995	_	-			1000		-		_	100			
400	Gln	Pro	Phe	va]	Leu	ı Thi	: Sei	. Le	eu Se	er Gl	ln Gl	Ly Gl	ln A	sn I	ro P	Asp
401		1010					101						20			
403	Arg	Gln	Pro	His	s Asp	Leu	ı Seı	r Il	e As	sp I]	le Ty	r Se	er A	rg 1	Chr I	Leu
404	-	1025					103						35			
								_								

Page Gol 8A

Errored 09/931,375

<210> 3 <211> 20 <212> DNA <213> Artificial Sequence <400> 3

<400> 3 ttgctgccct agacttagcc

<210> 4 <211> 18 <212> DNA <213> Artificial Sequence

<400> 4 ccaagteget teegagae

<210> 5 <211> 20 <212> DNA <213> Artificial Sequence

<400> 5

When the 213 response is mandatory response is required in Field 223.

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

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18

VERIFICATION SUMMARY DATE: 08/23/2001 PATENT APPLICATION: US/09/931,375 TIME: 17:07:13

Input Set : A:\ES.txt

Output Set: N:\CRF3\08162001\I931375.raw

```
L:14 M:270 C: Current Application Number differs, Replaced Current Application No
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:528 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:528 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:537 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:537 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:546 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:546 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:555 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:555 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:564 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:564 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:573 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:573 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:582 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:582 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:591 \ M:258 \ W: Mandatory Feature missing, <220> FEATURE:
L:591 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:600 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:600 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:609 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:609 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: L:618 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:618 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:627 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:627 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:636 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:636 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:645 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:645 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:654 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:654 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:663 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:663 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:672 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:672 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:681 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:681\ M:258\ W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:690 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:690 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:699 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:699 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:708 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:708 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:717 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:717 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:726 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:726 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
```

VERIFICATION SUMMARY

.

DATE: 08/23/2001

PATENT APPLICATION: US/09/931,375

TIME: 17:07:13

Input Set : A:\ES.txt

Output Set: N:\CRF3\08162001\I931375.raw

L:735 M:258 W: Mandatory Feature missing, <220> FEATURE:

L:735 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:

L:744 M:258 W: Mandatory Feature missing, <220> FEATURE:

L:744 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:

L:787 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:32

L:862 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:40